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IN THE CLAIMS:

- An isolated polynucleotide comprising a nucleotide sequence at least about ninety percent (90%) homologous to a sequence selected from the group consisting of SEQ ID NOS: 1-3.
- 2. An isolated polynucleotide of claim 1, wherein said polynucleotide encodes an integrase.
- 3. An isolated polynucleotide of claim 1, wherein said polypeptide encodes an excisionase.
- An isolated polynucleotide of claim 1, wherein said polypeptide encodes an integrase attachment site.
- An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NOS: 1-3.
- A recombinant vector comprising one or more of a nucleotide sequence at least about ninety percent (90%) homologous to a sequence selected from the group consisting of SEQ ID NOS: 1-3.
- 7. A recombinant vector comprising one or more of SEQ ID NOS: 1-3.
- 8. A recombinant vector comprising SEQ ID NOS: 1-3.
- 9. The recombinant vector of claim 6, wherein said vector is an integrating vector.
- 10. The recombinant vector of claim 7, wherein said vector is an integrating vector.
- 11. A host cell comprising the vector of claim 6.
- 20 12. A host cell comprising the vector of claim 7.
 - 13. The host cell of claim 11, wherein said host cell is bacterial.
 - 14. The host cell of claim 13, wherein said host cell is an actinomycete.
 - 15. The host cell of claim 14, wherein said host cell belongs to the genus Micromonospora.
 - 16. The host cell of claim 12, wherein said host cell is an actinomycete.

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- 17. The host cell of claim 16, wherein said actinomycete belongs to the genus Micromonospora.
- 18. A method for transforming an actinomycete with a vector comprising:
- a) isolating a polynucleotide comprising a nucleotide sequence at least ninety percent (90%) homologous to a sequence selected from the group consisting of SEQ ID NOS: 1-3:
 - b) inserting said polynucleotide or polynucleotides into a vector;
 - exposing said actinomycete to said vector under conditions permitting for transformation of said actinomycete.
- The method of claim 18, wherein said polynucleotide comprises one or more of SEQ ID NOS: 1-3.
- The method of claim 19, wherein said polynucleotide comprises all of the nucleotide sequences set forth in SEQ ID NOS: 1-3.
- 21. The method of claim 20, wherein said method further comprises introducing a promoter into said vector.
- 22. An isolated polynucleotide comprising a nucleotide sequence at least about ninety percent (90%) homologous to a sequence selected from the group consisting of SEQ ID NOS: 4-9.
- 23. The isolated polynucleotide of claim 22 wherein said nucleotide sequence is set forth inSEQ ID NOS: 4-9.